

| L Number | Hits | Search Text   | DB  | Time stamp          |
|----------|------|---|---|---------------------|
| 1        | 1    | (PAM or pulse adj1 amplitude adj1 modulation) and (fraction\$3 with encod\$3) with (non\$1integer with bit) and constellation and \$3DSL                  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT | 2004/06/18<br>10:15 |
| 2        | 16   | fraction\$4 with encod\$3 and constellat\$3 and (PAM or pulse adj1 amplitude adj1 modulat\$3) and (trellis with encod\$3) and modem                       | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT | 2004/06/18<br>10:23 |
| 3        | 2    | fraction\$4 with encod\$3 and constellat\$3 and (PAM or pulse adj1 amplitude adj1 modulat\$3) and (trellis with encod\$3) and modem and transceiver       | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT | 2004/06/18<br>10:24 |
| 4        | 4    | 375/219,353.ccls. and betts with william  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT | 2004/06/18<br>11:06 |
| 5        | 20   | 375/.ccls. and fraction\$4 with encod\$3 and constellat\$3 and ((PAM or pulse adj1 amplitude adj1 modulat\$3) with transmi\$5)                            | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT | 2004/06/18<br>11:06 |
| -        | 1    | (PAM or pulse adj1 amplitude adj1 modulation) and fraction\$3 adj1 encod\$3 with (non\$1integer with bit) and ((constellation adj1 encod\$3) or mapper)   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT | 2004/06/17<br>11:43 |
| -        | 4    | (PAM or pulse adj1 amplitude adj1 modulation) and (fraction\$3 with encod\$3) with (non\$1integer with bit) and ((constellation with encod\$3) or mapper) | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT | 2004/06/17<br>14:48 |
| -        | 237  | betts with william  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT | 2004/06/17<br>11:57 |
| -        | 26   | betts with william and fractional   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT | 2004/06/17<br>11:58 |
| -        | 92   | 375/.ccls. and betts with william   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT | 2004/06/18<br>11:05 |
| -        | 2    | 375/219.ccls. and betts with william and fractional   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT | 2004/06/17<br>11:58 |
| -        | 4    | 375/219.ccls. and betts with william  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT | 2004/06/17<br>11:59 |
| -        | 1    | (PAM or pulse adj1 amplitude adj1 modulation) and (fraction\$3 adj1 encod\$3) with (non\$1integer with bit) and (constellation with encod\$3)             | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT | 2004/06/17<br>12:03 |
| -        | 3    | "5103227" and (pam or pulse adj1 amplitude adj1 modulat\$3) and constellation adj1 encod\$3   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT | 2004/06/17<br>15:57 |
| -        | 23   | "5103227" and (pam or pulse adj1 amplitude adj1 modulat\$3)   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT | 2004/06/17<br>13:16 |
| -        | 44   | "5103227"   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT | 2004/06/17<br>13:17 |
| -        | 34   | (PAM or pulse adj1 amplitude adj1 modulation) adj1 transmitter  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT | 2004/06/17<br>16:14 |

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|---|----|---|---|---------------------|
| - | 35 | "5115453"   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT | 2004/06/17<br>14:49 |
| - | 5  | "5115453" and fractional with encoder   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT | 2004/06/17<br>15:08 |
| - | 5  | "5115453" and fractional with encoder and constellation   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT | 2004/06/17<br>15:10 |
| - | 3  | "5115453" and fraction\$4 with encod\$3 and constellat\$3 and (PAM and transmi\$5)  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT | 2004/06/17<br>15:22 |
| - | 93 | fraction\$4 with encod\$3 and constellat\$3 and ((PAM or pulse amplitude modulat\$3) with transmi\$5)   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT | 2004/06/17<br>16:11 |
| - | 21 | fraction\$4 with encod\$3 and constellat\$3 and ((PAM or pulse adj1 amplitude adj1 modulat\$3) with transmi\$5)   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT | 2004/06/18<br>07:30 |
| - | 1  | "5103227" and (pam or pulse adj1 amplitude adj1 modulat\$3) and constellation adj1 encod\$3 and non\$1integer   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT | 2004/06/17<br>15:55 |
| - | 3  | "5103227" and (pam or pulse adj1 amplitude adj1 modulat\$3) and constellation adj1 encod\$3 and (fraction\$3 with encod\$3)   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT | 2004/06/17<br>15:59 |
| - | 12 | fraction\$4 with encod\$3 and constellat\$3 and ((PAM or pulse amplitude modulat\$3) with transmi\$5) and non-integer   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT | 2004/06/17<br>17:56 |
| - | 34 | (PAM or (pulse adj1 amplitude adj1 modulation)) adj1 transmitter  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT | 2004/06/17<br>16:14 |
| - | 1  | fraction\$4 with encod\$3 and constellat\$3 and ((PAM or pulse adj1 amplitude adj1 modulat\$3) with transmi\$5) and non-integer   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT | 2004/06/17<br>17:44 |
| - | 21 | fraction\$4 with encod\$3 and constellat\$3 and ((PAM or pulse adj1 amplitude adj1 modulat\$3) with transmi\$5)   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT | 2004/06/18<br>11:06 |
| - | 1  |   | USPAT                                       | 2004/06/17<br>17:47 |
| - | 22 | fraction\$4 with encod\$3 and ((PAM or pulse adj1 amplitude adj1 modulat\$3) with transmi\$5)   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT | 2004/06/17<br>17:50 |
| - | 1  |   | USPAT                                       | 2004/06/18<br>07:28 |
| - | 5  | fraction\$4 with encod\$3 and constellat\$3 and ((PAM or pulse adj1 amplitude adj1 modulat\$3) with transmi\$5) and ((signal or one) with dimension\$1) and (trellis with encod\$3) | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT | 2004/06/18<br>07:44 |
| - | 17 | fraction\$4 with encod\$3 and constellat\$3 and ((PAM or pulse adj1 amplitude adj1 modulat\$3) with transmi\$5) and (trellis with encod\$3)   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT | 2004/06/18<br>07:43 |
| - | 3  | fraction\$4 with encod\$3 and constellat\$3 and ((PAM or pulse adj1 amplitude adj1 modulat\$3) with transmi\$5) and (trellis with encod\$3) and DSL                                 | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT | 2004/06/18<br>07:45 |

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|---|----|---|---|---------------------|
| - | 5  | fraction\$4 with encod\$3 and constellat\$3 and ((PAM or pulse adj1 amplitude adj1 modulat\$3) with transmi\$5) and ((signal or one) with dimension\$1) | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT | 2004/06/18<br>07:45 |
| - | 3  | fraction\$4 with encod\$3 and constellat\$3 and ((PAM or pulse adj1 amplitude adj1 modulat\$3) and ((trellis with encod\$3) and DSL                     | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT | 2004/06/18<br>07:45 |
| - | 8  | fraction\$4 with encod\$3 and constellat\$3 and (PAM or pulse adj1 amplitude adj1 modulat\$3) and ((signal or one) with dimension\$1)                   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT | 2004/06/18<br>07:47 |
| - | 5  | fraction\$4 with encod\$3 and constellat\$3 and (PAM or pulse adj1 amplitude adj1 modulat\$3) and ((single or one) with dimension\$1)                   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT | 2004/06/18<br>07:47 |
| - | 4  | (PAM or pulse adj1 amplitude adj1 modulation) and (fraction\$3 with encod\$3) with (non\$1integer with bit) and (constellation with encod\$3)           | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT | 2004/06/18<br>10:12 |
| - | 19 | fraction\$4 with encod\$3 and constellat\$3 and (PAM or pulse adj1 amplitude adj1 modulat\$3) and ((trellis with encod\$3)                              | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT | 2004/06/18<br>10:17 |
| - | 4  | fraction\$4 with encod\$3 and (PAM or pulse adj1 amplitude adj1 modulat\$3) and ((trellis with encod\$3) with constellat\$3)                            | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT | 2004/06/18<br>08:29 |
| - | 1  | fraction\$4 with encod\$3 and (PAM or pulse adj1 amplitude adj1 modulat\$3) and ((trellis with encod\$3) with constellat\$3) and \$2DSL                 | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT | 2004/06/18<br>08:29 |